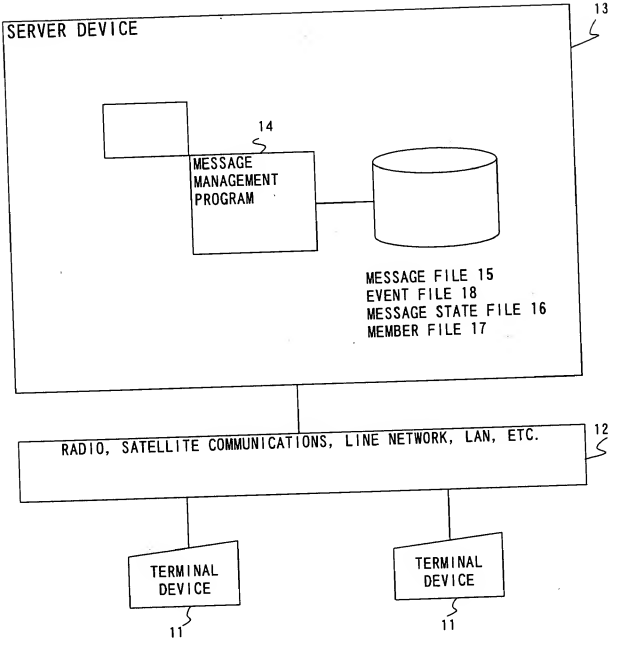
SERVER DEVICE
13
14
MESSAGE MANAGEMENT PROGRAM
MESSAGE FILE 15
EVENT FILE 18
MESSAGE STATE FILE 16
MEMBER FILE 17
RADIO, SATELLITE COMMUNICATIONS, LINE NETWORK, LAN, ETC.
12
TERMINAL DEVICE
11
TERMINAL DEVICE
11

FIG. 1

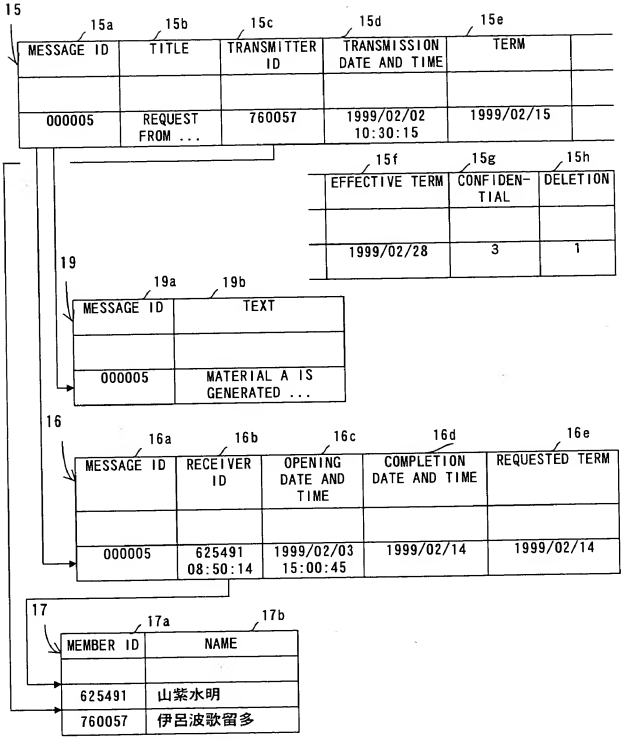
15
15a
15b
15c
15d
15e
MESSAGE ID
TITLE
TRANSMITTER ID
TRANSMISSION DATE AND TIME
TERM
000005
REQUEST FROM ...
760057
1999/02/02 10:30:15
1999/02/15
15f
15g
15h
EFFECTIVE TERM
CONFIDENTIAL
DELETION
1999/02/28
3
1
19
19a
19b
MESSAGE ID
TEXT
000005
MATERIAL A IS GENERATED ...
16
16a
16b
16c
16d
16e
MESSAGE ID
RECEIVER ID
OPENING DATE AND TIME
COMPLETION DATE AND TIME
REQUESTED TERM
000005
625491 08:50:14
1999/02/03 15:00:45
1999/02/14
1999/02/14
17
17a
17b
MEMBER ID
NAME
625491
山菜水明
760057
伊呂波歌留多

FIG. 2

CODE	CONTENTS
1	SUPPRESSING TRANSFER FUNCTION (NOT TO BE TRANSFERRED)
2	SUPPRESSING TRANSFER FUNCTION (DISPLAYING WARNING MESSAGE WHEN MESSAGE IS TRANSFERRED)
3	FORCIBLE DISPLAY OF CONFIDENTIAL MESSAGE (CHANGE IN COLOR OF TITLE, ETC.)

FIG. 3

CODE	CONTENTS
1	AUTOMATIC DELETION WHEN ALL RECEIVERS HAVE COMPLETED
2	AUTOMATIC DELETION WHEN RECEPTION IS COMPLETED
3	CAN BE DELETED BY TRANSMITTER OR RECEIVER
4	CAN BE DELETED BY TRANSMITTER

FIG. 4

EP 0 562 840 A1

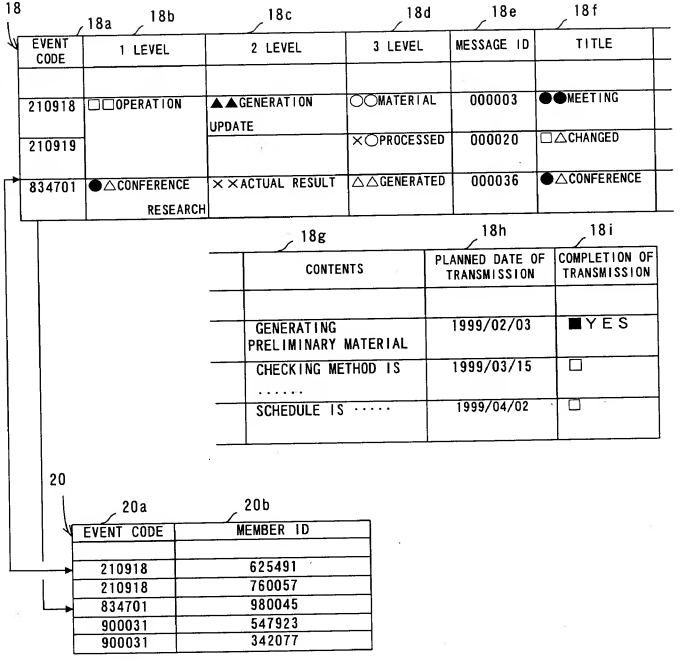
18
18a
18b
18c
18d
18e
18f
EVENT CODE
1 LEVEL
2 LEVEL
3 LEVEL
MESSAGE ID
TITLE
210918
□□OPERATION
▲▲GENERATION
UPDATE
○○MATERIAL
000003
●●MEETING
210919
×○PROCESSED
000020
□△CHANGED
834701
●△CONFERENCE
RESEARCH
××ACTUAL RESULT
△△GENERATED
000036
●△CONFERENCE
18g
18h
18i
CONTENTS
PLANNED DATE OF TRANSMISSION
COMPLETION OF TRANSMISSION
GENERATING PRELIMINARY MATERIAL
1999/02/03
■YES
CHECKING METHOD IS .....
1999/03/15
□
SCHEDULE IS .....
1999/04/02
□
20
20a
20b
EVENT CODE
MEMBER ID
210918
625491
210918
760057
834701
980045
900031
547923
900031
342077

FIG. 5

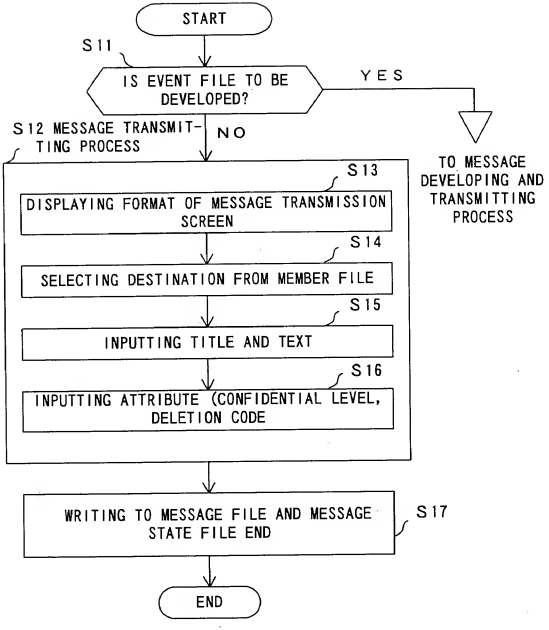
START
S11
IS EVENT FILE TO BE DEVELOPED?
YES
NO
TO MESSAGE DEVELOPING AND TRANSMITTING PROCESS
S12 MESSAGE TRANSMITTING PROCESS
S13
DISPLAYING FORMAT OF MESSAGE TRANSMISSION SCREEN
S14
SELECTING DESTINATION FROM MEMBER FILE
S15
INPUTTING TITLE AND TEXT
S16
INPUTTING ATTRIBUTE (CONFIDENTIAL LEVEL, DELETION CODE
WRITING TO MESSAGE FILE AND MESSAGE STATE FILE END
S17
END

FIG. 6

TRANSMISSION☐ COMPLETION☐

DESTINATION	岡目清子　海原広
TRANSMISSION DATE	1999/02/01
TITLE	REQUEST OF △△
TEXT	RELATING TO THE TITLE △△·····
TRANSMITTER	事象有無
TERM	1999/02/24　OFFERED TERM :
CONFIDENTIAL MESSAGE	NO TRANSFER FUNCTION ☐　TRANSFER SUPPRESSED ☐ EMPHASIZED DISPLAY ☐
DELETION	DELETED AT COMPLETION BY ALL RECEIVERS ☐ CAN BE DELETED BY RECEIVER ☐ CAN BE DELETED ONLY BY TRANSMITTER ■

TRANSMISSION BY DEVELOPMENT　PERIOD 1999/02/12 — 1999/02/28

COMPLETION STATE TABLE ■　REQUESTED TERM TABLE ☐

FIG. 7

US 5,926,460

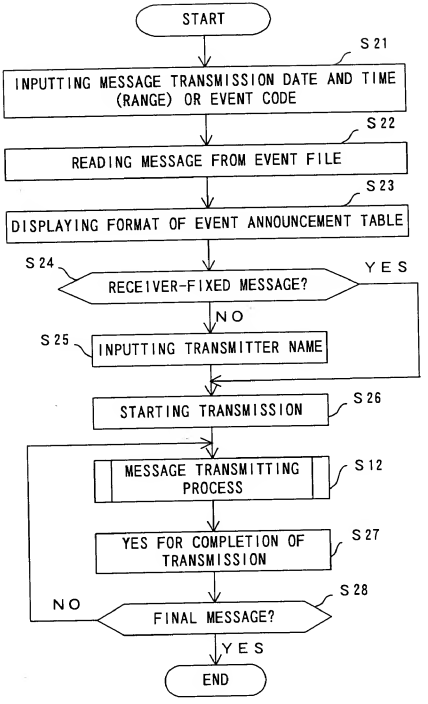

FIG. 8

EVENT CODE	1 LEVEL	2 LEVEL	3 LEVEL	MESSAGE ID	TITLE
210918	□□ OPERATION	▲▲GENERATION UPDATE	○○MATERIAL	000003	●●MEETING
210919			×○PROCESSED	000020	□△CHANGED
834701	●△ CONFERENCE RESEARCH	×× ACTUAL RESULT	△△GENERATED	000036 RELATING TO	●△CONFERENCE

	CONTENTS	PLANNED DATE OF TRANSMISSION	COMPLETION OF TRANSMISSION
	GENERATING PRELIMINARY MATERIAL·····	1999/02/03	■YES
	CHECKING METHOD IS ·····	1999/03/15	□
	SCHEDULE IS ····	1999/04/02	□

FIG. 9

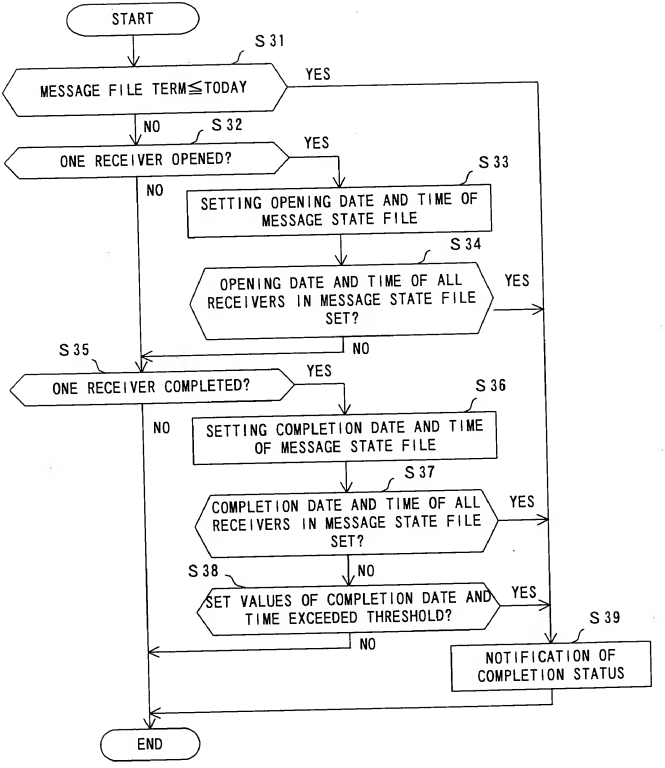
START
S31
MESSAGE FILE TERM≦TODAY
YES
NO
S32
ONE RECEIVER OPENED?
YES
NO
S33
SETTING OPENING DATE AND TIME OF MESSAGE STATE FILE
S34
OPENING DATE AND TIME OF ALL RECEIVERS IN MESSAGE STATE FILE SET?
YES
NO
S35
ONE RECEIVER COMPLETED?
YES
NO
S36
SETTING COMPLETION DATE AND TIME OF MESSAGE STATE FILE
S37
COMPLETION DATE AND TIME OF ALL RECEIVERS IN MESSAGE STATE FILE SET?
YES
NO
S38
SET VALUES OF COMPLETION DATE AND TIME EXCEEDED THRESHOLD?
YES
NO
S39
NOTIFICATION OF COMPLETION STATUS
END

FIG. 10

CODE	CONTENTS
1	ALL RECEIVERS OPENED MESSAGE WITH TERM
2	OPENING RATE OF MESSAGE WITH TERM EXCEEDED PREDETERMINED THRESHOLD
3	ALL RECEIVERS COMPLETED MESSAGE WITH TERM
4	COMPLETION RATE OF MESSAGE WITH TERM EXCEEDED PREDETERMINED THRESHOLD
5	TERM OF MESSAGE WITH TERM EXPIRED

FIG. 11

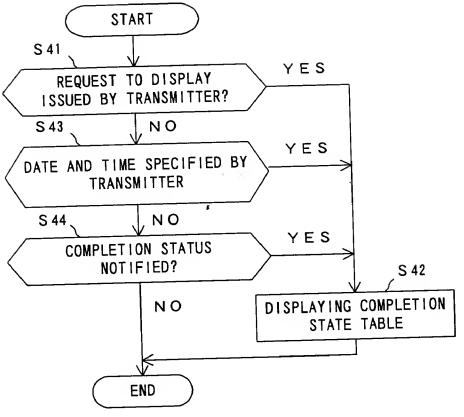
START
S41
REQUEST TO DISPLAY ISSUED BY TRANSMITTER?
YES
NO
S43
DATE AND TIME SPECIFIED BY TRANSMITTER
YES
NO
S44
COMPLETION STATUS NOTIFIED?
YES
NO
S42
DISPLAYING COMPLETION STATE TABLE
END

FIG. 12

OPENING	COMPLE-TION	TITLE	TRANSMIT-TER	TRANSMIS-SION DATE AND TIME	OPENING DATE AND TIME	TERM
1/1	0/1 (0%)	COMMENT ON 'COMMENT TEST'	森 俊樹	1999/04/19 19:25:45	1999/04/19 19:26:04	
0/14 (0%)	0/14 (0%)	ABOUT●●	天気晴朗	1999/02/15 13:30:15		1999/03/03
5/20 (25%)	3/20 (15%)	REQUEST FOR △△	山紫水明	1999/02/17 08:05:23	1999/02/20 10:55:19	1999/03/05
5/5 (100%)	3/5 (100%)	PROCESS OF ◇◇	晴天霹靂	1999/02/17 09:00:00	1999/02/17 11:14:23	1999/02/18
12/40 (33%)	3/40 (8%)	HANDLING ××	難波歌留多	1999/02/17 18:45:36	1999/02/18 9:00:00	
1/1 (100%)	0/1 (0%)	INFORMATION ABOUT ○○	岡目清子	1999/02/19 09:30:05	1999/02/20 10:59:20	1999/03/15
56/278 (20%)	43/278 (15%)	ABOUT△△	有象無象	1999/02/19 10:50:20	1999/02/20 12:20:56	
18/18 (100%)	18/18 (100%)	RELATING TO METHOD OF◎◎	二宮来光	1999/03/10 15:00:00	1999/03/15 10:00:00	1999/03/20

	COMPLETION DATE OF USER	ENTIRE COMPLETION	EFFECTIVE TERM	CONFIDENTIAL MESSAGE	DELETION
					DELETION ONLY BY TRANSMIT-TER
	1999/02/25				DELETION ONLY BY TRANSMIT-TER
	1999/02/17 17:00:40	1999/02/17 20:03:45			
	1999/02/20 12:05:38		1999/02/20	AUTOMATIC DELETION AT COMPLETION BY RECEIVERS	CAN BE DELETED BY RECEIVER
					DELETION ONLY BY TRANSMIT-TER
	1999/02/28 20:06:26				AUTOMATIC DELETION AT COMPLETION BY ALL RECEIVERS
	1999/03/15 10:03:40	1999/03/16 13:00:38			

FIG. 13

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TYPE	COMMENT ☐←COMPLETION CHECK	CONFIRMATION
COMMENT		
TRANSMISSION DATE	99/04/19 19:25:45 (DISPLAY STARTING DATE:99/04/19 19:25:46)	
TITLE	COMMENT ON 'COMMENT TEST'	
TEXT	TEXT ENTER COMMENT AND PRESS COMPLETION KEY	

COMMENT STATE ON MESSAGE
(TRANSMITTER IS AUTOMATICALLY INFORMED AT COMPLETION OF COMMENT REQUIRED MESSAGE)

NAME	OPENING DATE	STATE	COMPLETION	COMMENT
森 俊樹	99/04/19	COMPLE-TION	99/04/19	TEST
鈴木 一大	99/04/19	COMPLE-TION	99/04/19	APPROVED
川嵜 久則	99/04/19	COMPLE-TION	99/04/19	TEST

TRANSMITTER NAME	森 俊樹	RETURN	TRANS-FER	TRANSMITTING TEXT
CABINET STORED	COPIED TO	PROCEEDINGS OF EDUCATIONAL SYSTEM DEPARTMENT ▼	STORAGE	☐ADDING CURRENT OPENING STATE
STATE NOT OPENED	OPENING : 1/1(100%) COMPLETION CHECK : 0/1 (0%)			

NAME	OPENING DATE	STATE	COMPLETION DATE	COMMENT
森 俊樹	1999/04/19 19:26:04			

FIG. 14

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STATUS	TITLE	TRANSMISSION DATE AND TIME	TERM	DELETION
OPENED BY ALL RECEIVERS	ABOUT△△	1999/02/10 11:14:07	1999/03/25	☐
70% OPENED	INFORMATION ABOUT ××	1999/02/17 10:30:43	1999/03/10	☐
COMPLETED BY ALL RECEIVERS	REQUEST FOR ○○	1999/02/04 11:04:30	1999/02/15	☐
	HANDLING ●●	1999/02/10 08:04:19	1999/02/20	☐
90% COMPLETED	ABOUT GENERATION OF ▲▲	1999/01/24 12:00:06	1999/02/03	☐
EXPIRATION OF TERM	COMMENT ON 'COMMENT TEST'	1999/04/19 19:25:45	1999/04/25	☐

DELETION OK ☐

TYPE	COMMENT ☐← COMPLETION CHECK [CONFIRMATION]
COMMENT	
TRANSMISSION DATE	99/04/19 19:25:45 (DISPLAY STARTING DATE:99/04/19 19:25:46)
TITLE	COMMENT ON 'COMMENT TEST'
TEXT	TEST ENTER COMMENT AND PRESS COMPLETION KEY

COMMENT STATE ON MESSAGE

NAME	OPENING DATE	STATE	COMPLETION DATE	COMMENT
森 俊樹	99/04/19	COMPLETION	99/04/19	TEST
鈴木 一大	99/04/19	COMPLETION	99/04/19	APPROVED
川岩 久則	99/04/19	COMPLETION	99/04/19	TEST

TRANSMITTER NAME	森 俊樹 [RETURN] [TRANSFER] [TRANSMITTING TEXT]
STORED	COPIED TO [PROCEEDINGS OF EDUCATIONAL SYSTEM DEPARTMENT ▼] [STORAGE] ☐ADDING CURRENT OPENING STATE
STATE NOT OPENED	OPENING : 1/1(100%) COMPLETION CHECK : 0/1 (0%)

NAME	OPENING DATE	STATE	COMPLETION DATE	COMMENT
森 俊樹	1999/04/19 19:26:04			

FIG. 15

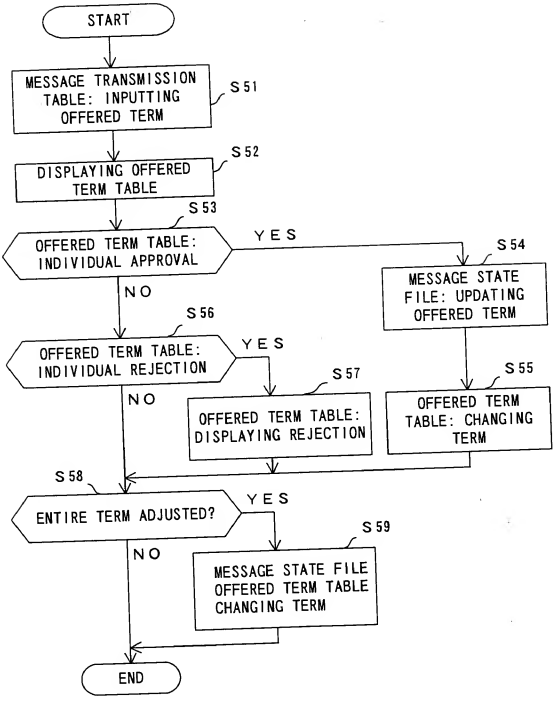
START
MESSAGE TRANSMISSION TABLE: INPUTTING OFFERED TERM
S51
DISPLAYING OFFERED TERM TABLE
S52
S53
OFFERED TERM TABLE: INDIVIDUAL APPROVAL
YES
S54
MESSAGE STATE FILE: UPDATING OFFERED TERM
NO
S56
OFFERED TERM TABLE: INDIVIDUAL REJECTION
YES
S57
OFFERED TERM TABLE: DISPLAYING REJECTION
NO
S55
OFFERED TERM TABLE: CHANGING TERM
S58
ENTIRE TERM ADJUSTED?
YES
S59
NO
MESSAGE STATE FILE OFFERED TERM TABLE CHANGING TERM
END

FIG. 16

0001-3826100

TITLE	RECEIVER	TERM SPECIFIED BY TRANSMITTER	OFFERED TERM		AFTER ADJUSTMENT
ABOUT○○	天気晴朗	1999/02/20	1999/03/20	APPROVED □ REJECTED □	1999/04/14
	波間はるか		1999/03/15	APPROVED □ REJECTED □	
PROCESS OF □△	青空澄夫	1999/03/30	1999/04/10	APPROVED ■ REJECTED □	

FIG. 17

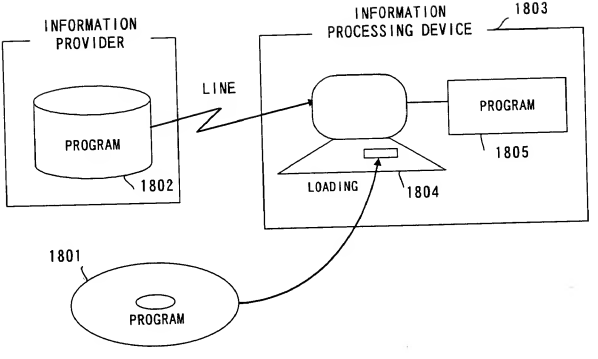
INFORMATION
PROVIDER
PROGRAM
1802
LINE
INFORMATION
PROCESSING DEVICE
1803
PROGRAM
1805
LOADING
1804
1801
PROGRAM

FIG. 18